In the claims

1-86. (canceled)

87. (Previously presented) An animal feed composition comprising a particle, wherein such particle comprises alginate, a non-digestible polymer, and an emulsifier, and wherein the alginate comprises from about 0.5 to about 2.0 percent by wet weight of the particle, the total amount of polymer comprises from about 0.1 to about 6 percent by wet weight of the particle, and the emulsifier comprises a ratio to the non-digestible polymer from about 1:10 to about 10:1.

88. (Previously presented) The composition of claim 87, wherein the alginate comprises from about 0.5 to about 1.0 percent by wet weight of the particle.

89. (Previously presented) The composition of claim 88, wherein the alginate comprises about 1.0 percent by wet weight of the particle.

90. (Previously presented) The composition of claim 87, wherein the non-digestible polymer comprises from about 1.0 to about 4.0 percent by wet weight of the particle.

91. (Previously presented) The composition of claim 90, wherein the non-digestible polymer comprises about 2.0 percent by wet weight of the particle.

92. (Previously presented) The composition of claim 87, wherein the emulsifier and non-digestible polymer are present in an emulsifier to polymer ratio from about 1:5 to about 5:1.

93. (Previously presented) The composition of claim 92, wherein the emulsifier and non-digestible polymer are present in an emulsifier to polymer ratio from about 1:4 to about 2:1.

94. (Previously presented) The composition of claim 92, wherein the emulsifier and non-digestible polymer are present in an emulsifier to polymer ratio of about 1:2.

95. (Previously presented) The composition of claim 87, wherein the non-digestible polymer is chosen from poly(vinylpyrrolidone), poly(vinylalcohol), poly(ethylene oxide), cellulose, cellulose derivatives, silicone, poly(hydroxyethylmethacrylate), modified starch and starch derivatives, high amylase starch,

chitosan, xanthan gum, carrageenan, carboxymethyl cellulose, methylcellulose, guar gum, gum Arabic, glycogen, locust bean gum, acacia gum, and combinations thereof.

96. (Previously presented) The composition of claim 87, further comprising a bioactive agent or agents.

97. (Previously presented) The composition of claim 96, wherein the bioactive agent undergoes controlled release.

98. (Previously presented) The composition of claim 96, wherein the bioactive agent or agents are chosen from microbes, proteins, peptides, nucleic acids, hormones, drugs, antibiotics, enzymes, minerals, vitamins, antibodies, immunogens, microstructures, and nanostructures.

99. (Previously presented) The composition of claim 98, wherein the microbe is chosen from bacteria, yeast, and viruses.

100. (Previously presented) The composition of claim 99, wherein the microbe is chosen from Bacillus spp., Bacillus licheniformis, Bacillus subtilis, Lactobacillus spp., L. bulgaricus, L. helveticus, L. plantarum, L. paracasei, L. casei, L. rhamnosus, Lactococcus spp., L. lactis, Alteromonas spp., A. media, Carnobacterium spp., C. divergens, Vibrio spp., V. alginolyticus, Pseudomonas spp., P. fluorescens, Streptococcus spp., S. lactis, S. thermophilus, Pseudoalteromonas spp., P. undina, Saccharomyces spp., S. cerevisiae, S. exiguus, Phaffia spp., P. rhodozoma, Pichia spp., P. pastoris, Kluyveromyces spp., K. aestuarii, K. marxianus, and K. yarrowii.

101. (Previously presented) The composition of claim 98, wherein the protein is chosen from somatostatin, somatostatin derivatives, growth hormones, prolactin, adrenocorticotropic hormone (ACTH), melanocyte stimulating hormone (MSH), thyroid hormone releasing hormone (TRH), TRH salts, TRH derivatives, thyroid stimulating hormone (TSH), luteinizing hormone (LH), oxytocin, calcitonin, gastrin, secretin, pancreozymin, cholecystokinin, interleukins, thymopoietin, thymosin, thymostimulin, thymic factors, bombesin, neurotensin, lysozyme, protein synthesis stimulating peptides, vasoactive intestinal polypeptide (VIP), growth hormone releasing factor (GRF), and somatocrinin.

102. (Previously presented) The composition of claim 98, wherein the antibiotic is chosen from gentamicin, tetracycline, oxytetracycline, doxycycline, ampicillin, ticarcillin, cephalothin, cephaloridine,

cefotiam, cefsulodin, cefmenoxime, cefmetazole, cefazolin, cefotaxime, cefoperazone, ceftizoxime, moxolactam, latamoxef, thienamycin, sulfazecin, and azthreonam.

103. (Previously presented) The composition of claim 87, wherein the composition is in a dry form.

104. (Previously presented) The composition of claim 87, wherein the composition is in a wet form.

105. (Previously presented) The composition of claim 87, wherein the particle size ranges from about 20 *u*m to about 150 *u*m.

106. (Previously presented) The composition of claim 87, wherein the particle size ranges from about 100 *u*m to about 1 cm.

107. (Previously presented) The composition of claim 87, further comprising one or more bioattractant.

108. (Previously presented) The composition of claim 87, further comprising nutrients.

109. (Previously presented) The composition of claim 87, wherein the animal is human.

110. (Previously presented) The composition of claim 87, wherein the animal is a domestic animal.

111. (Previously presented) The composition of claim 87, wherein the animal is an aquatic animal.

112. (Previously presented) The composition of claim 111, wherein the animal is a fish.

113. (Previously presented) The composition of claim 111, wherein the animal is a mollusk.

114. (Previously presented) The composition of claim 111, where in the animal is a shrimp.

115. (Previously presented) The composition of claim 111, wherein the animal is a rotifer.

116. (Previously presented) The composition of claim 111, wherein the animal is Artemia.

117. (Withdrawn) A method of producing an animal feed composition comprising a particle, wherein such method comprises (a) dissolving a non-digestible polymer in an alkaline solution, (b) adding an emulsifier, (c) adding a bioactive agent; and (d) atomizing the slurry resulting from (a)-(c), wherein the atomization produces a particle between about 10 *u*m and about 10,000 *u*m in size, and wherein the bioactive agent is microbound, viable, and bioavailable in a timed-release manner.

118. (Withdrawn) A method of delivery of a bioactive agent or agents comprising providing a particle to an animal, such particle comprising alginate, a non-digestible polymer, an emulsifier, and one or more bioactive agent, wherein providing the particle delivers the particle to the animal.

119. (Withdrawn) A method of delivering a particle produced by the method of claim 117 to an aquatic animal comprising producing the particle and feeding the particle to an aquatic animal, wherein the bioactive agent has a bioactive effect on the animal in vivo.

120. (Withdrawn) The method of claim 117, wherein the bioactive agent is delivered to an aquatic animal.

121. (Previously presented) A particle comprising alginate, a non-digestible polymer, and an emulsifier.

122. (Previously presented) The particle of claim 121 further comprising one or more bioactive agent.